

#2



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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/082,830

DATE: 03/20/2002 8.5
TIME: 11:47:04

Input Set : A:\Dex-249.app

Output Set: N:\CRF3\03202002\J082830.raw

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3 <110> APPLICANT: Sun, Yongming
4     Recipon, Herve
5     Salceda, Susana
6     Liu, Chenghua
7     Turner, Leah
9 <120> TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific
10    Genes and Proteins
12 <130> FILE REFERENCE: DEX-0249
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/082,830
C--> 15 <141> CURRENT FILING DATE: 2001-10-29
17 <150> PRIOR APPLICATION NUMBER: 60/243,802
18 <151> PRIOR FILING DATE: 2000-10-27
20 <160> NUMBER OF SEQ ID NOS: 282
22 <170> SOFTWARE: PatentIn Ver. 2.1
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25 <211> LENGTH: 207
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27 <213> ORGANISM: Homo sapiens
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31 catttatcca ctggtactat ttagttgtat ttattagaca gcttcctgcc ctctccaaaa 120
32 agcttactga gctagtaact atttacaggg ttagccaaag aacacaaaaa agtgatctct 180
33 attagactgt aagaatatgg ttccct 207
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37 <211> LENGTH: 503
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42 <221> NAME/KEY: unsure
43 <222> LOCATION: (492)
44 <223> OTHER INFORMATION: a, c, g or t
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48 cggcaggagt cttatttcac ctctgtaggt cttactaagt gtgtttagtt ttcaaaagaa 120
49 accagtgttt ccctagtact taacatgggt ttattacatt tttttgacaa aaattcaaaa 180
50 ttacatatat tttgttcttc attagcaagt cacacatttt aaaatggcac actcccttcc 240
51 tcttcgtggt gttatttggt tattttaagg actgtttctg ggtagataag ctctggggtta 300
52 ttttaaaata cattttacaa tggaaatggc ctggacttga actgaaaagg aaacattatc 360
53 tgtgttattt cagacacatc agtgatcagt ttagaagata ggatgatttc actaagctta 420
54 taattcatct taaagctcac ctaaaataaaa gtaagtgact aaaatgatct ttttcttcca 480
W--> 55 ggagaggtag gnttaattaa ttg 503
58 <210> SEQ ID NO: 3
59 <211> LENGTH: 603

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65 cggcaggagt cttatttcac ctctgtaggt cttactaagt gtgttttagtt ttcaaaagaa 120
66 accagtgttt ccctagtact taacatgggt ttattacatt tttttgacaa aaattcaaaa 180
67 ttacatatat tttgttcttc attagcaagt cacacathtt aaaatggcac actcccttcc 240
68 tcttcgtgtt gttatttggt tattttaagg actgtttctg ggtagataag ctctgggtta 300
69 ttttaaaata cattttacaa tggaaatggc ctggacttga actgaaaagg aaacattatc 360
70 tgtgttattt cagacacatc agtgatcagt ttagaagata ggatgatttc actaagctta 420
71 taattcatct taaagctcac ctaaaataaaa gtaagtgaact aaaatgatct ttttcttcca 480
72 ggagaggtag gattaattaa tgggtataatg tgtggaatat ttcaggctta tctgattctt 540
73 ccactctaaa tctttgagag ttttaaacac attatgtgtc cattactgtt tatatcacat 600
74 aga 603
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83 <221> NAME/KEY: unsure
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W--> 90 tgacaggacg ganggaggga aagaaggaag aggaaaaaag aaaggacagg agaaagggag 180
91 gaaggcttct gccaaaaaat taaaatcaaa tttttgacat tctttttgtt tgcctttttt 240
92 gaaacaaaat gacacttgcc agacaccagc ttcttgcccc atgtcctggt ccttggtatc 300
93 cagatgacag cagtgtgatc ctgctgtgag ttcttctcgt gccttctgat ctgagttcct 360
94 gaaagcagag agccactcag gaactgctgt ctctcaggcc agctggctgg tgatgggctt 420
95 ttgaagactc tggtctctct tcctgctgga agagctcccc aggggccacc aggagccagg 480
96 tgaccgctct cagcctctgt gagctactgg agatcaccag accttcccac atcc 534
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105 <221> NAME/KEY: unsure
106 <222> LOCATION: (329)
107 <223> OTHER INFORMATION: a, c, g or t
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111 cccttaatcc atttaaccct gagtggacac agcacatgtt tcagagagca cagggttggg 120
112 gcaactgtgc agacactgga gataataaag aaaaacagca ctgggcctat aattgggagt 180
113 ctagatatat gatattgaaa tgcagctgac aatgcaagga gcaagaggac tcgcacagt 240
114 gtgcatggca gcttgcctgc attttctggg cacagaaagt gcgatggaag ggaatgagaa 300
W--> 115 ggggaaaaag gaaggatgac aggacggang gagggaaaga aggaagagga aaaaagaaag 360
116 gacaggagaa agggaggaag gcttctgcca aaaaattaaa atcaaatttt tgacattctt 420
117 tttgtttgcc ttttttgaag caaaatgaca cttgccagac accagcttcc tggcccatgt 480

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118 cctggtcctt ggtatccaga tgacagcagt gtgatcctgc tgtgagttcc ttccgtgcct 540
119 tctgatctga gttcctgaaa gcagagagcc actcaggaac tgctgtctct caggccagct 600
120 ggctgggtgat gggcttttga agactctggc tctctctcct gctggaagag ctccccaggg 660
121 gccaccagga gccagggtgac cgctctcagc ctctgtgagc tactggagat caccagacct 720
122 tcccacatcc cgggcagggtg ccagggccct taaggaggct ttctgctctg cagggatgtt 780
123 ctgtgggctc cagtattctg gcgagcatca gcttattctc ggcttagtct tcttgctcta 840
124 tagctcctgc ctctgttttg cttctttttg gtgatgcctg ttccacctta tgaagagggc 900
125 ctgtaaaatc caagctctgc acaaacc 928
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131 <213> ORGANISM: Homo sapiens
133 <220> FEATURE:
134 <221> NAME/KEY: unsure
135 <222> LOCATION: (305)
136 <223> OTHER INFORMATION: a, c, g or t
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140 tttatcctga tacatataat caggtagaat tgggaatttt attcagcctc cgcgtcgggg 120
141 aacatagaat aactctttat tgactcaaga ctggaatttt cagaaaagtt taaattttta 180
142 ttttttctag aattttcaga aaagtttaat agatctgaga catttttaaa tcttttaatc 240
143 tttctagcta tttgtgaata tgcttttctt ccttttaaat aaatataata gctgggatgt 300
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145 ttttcagt 368
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149 <211> LENGTH: 583
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155 <222> LOCATION: (61)..(80)
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159 <221> NAME/KEY: unsure
160 <222> LOCATION: (495)
161 <223> OTHER INFORMATION: a, c, g or t
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W--> 165 nnnnnnnnnn nnnnnnnnnn atagtcataa gatttggttt tctcttactg aaatgcggtg 120
166 taattgggat ttattcaaat cttcttttat atccatocca taaagttttg taatttttcc 180
167 ttattggcct aacaattcct gtaaagatta tttgtaagta gttaataatt tttgtaatca 240
168 tgatgagttt aacactttta ttttattaca tgtgctcata tgttggtgct gacactaaga 300
169 aacctatagg tcaaaagatg caaactaggg ccacatgagc acggcagcac ccagccagga 360
170 ctctgctgca gctgccgttt gtagatggag ctctctgtct ccaaagaagc acaggcctgt 420
171 tgttcttctg gttgtgctac agtaaaatga acctgggttt tctgaacatg tggttgaatg 480
W--> 172 tcagttgcta cctancgttt cacttgatgat attgatttta ttaactctaa agttatgtga 540
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176 <210> SEQ ID NO: 8
177 <211> LENGTH: 118

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183 tatgtttctt aattgtacca tgaattacaa aaacctattg gcaagatcag tcttattt 118
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187 <211> LENGTH: 502
188 <212> TYPE: DNA
189 <213> ORGANISM: Homo sapiens
191 <400> SEQUENCE: 9
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193 actattatat ccatttattt agtttctaag agactatact gcctaaaaaa atagagttga 120
194 tcttagtcaa atcacttaaa tcaggaacct ttaagattca gtttaatcag tttgtatat 180
195 aaagtattag acttactttc accatttttg cccaaaaaca aacttctgta cttcattaaa 240
196 taacatcaac aaaagtataa agctaatac aacctaggaa aaccttttc accgtaacag 300
197 ttatgtatat taactatatt atatactttt aaattagtaa aaaaaagggt aaaagacatg 360
198 aacaattatc aaaggaaaaa aatcctgaaa tattcaaagt tttaccttac taaaggaatt 420
199 cttaatctgc tgattatgtt tcttaattgt accatgaatt acaaaaacct attggcaaga 480
200 tcagtcttat ttaaaaaaaaa aa 502
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206 <213> ORGANISM: Homo sapiens
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209 <221> NAME/KEY: unsure
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211 <223> OTHER INFORMATION: a, c, g or t
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214 <221> NAME/KEY: unsure
215 <222> LOCATION: (214)
216 <223> OTHER INFORMATION: a, c, g or t
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219 <221> NAME/KEY: unsure
220 <222> LOCATION: (300)
221 <223> OTHER INFORMATION: a, c, g or t
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224 <221> NAME/KEY: unsure
225 <222> LOCATION: (304)..(324)
226 <223> OTHER INFORMATION: a, c, g or t
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229 <221> NAME/KEY: unsure
230 <222> LOCATION: (368)
231 <223> OTHER INFORMATION: a, c, g or t
233 <220> FEATURE:
234 <221> NAME/KEY: unsure
235 <222> LOCATION: (381)
236 <223> OTHER INFORMATION: a, c, g or t
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W--> 240 ctcaagtttg acttattggt tannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
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W--> 242 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nacnctgatt cctttctgga gactctaggg 240
W--> 243 gaatctcttt tcttgccctt tctggcttct agaacctgcc tacattcttt ggctagtggg 300
W--> 244 cccnnnnnnn nnnnnnnnnn nnnngtggct ggctcagtctt tctctgatgt tatctttctg 360
W--> 245 gttctgance ttccatctcc ntcttcgcca 390
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249 <211> LENGTH: 266
250 <212> TYPE: DNA
251 <213> ORGANISM: Homo sapiens
253 <400> SEQUENCE: 11
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255 ggcaaaacct tggagttttt gaggtccctg tggacttgcc tggcatgcct gggagatttg 120
256 taggtatctt ctttctacac ggattgtgtt tctgccctca aggaaaatag ttcactttga 180
257 ccactgtaaa tgatgtagta tttaaacaaa aggaaaagca cttcattgtc tgctctaaaa 240
258 ctaaaatgtt aagaaagaga ggtggc 266
261 <210> SEQ ID NO: 12
262 <211> LENGTH: 380
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264 <213> ORGANISM: Homo sapiens
266 <400> SEQUENCE: 12
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268 gctggaaatt tggatacagt aaatggtata taaggcttct ttttgcttgt gcaccagaag 120
269 tctttgtccc agcctccaga tcagcagtcg gtactccctc ctcccaacct gtaggaagta 180
270 cttgtgaaaa gttatctatc cctggctctga gtgggagggt cttaacctca ttgatgtttt 240
271 agtgtgactt gtctacattt gtgtgctccc ttogtcatct gcagaggata tgagaaaaga 300
272 aacaaatgaa caaaaagtgg agatagcgcc ttocatttca ttcttcattt ggtatggtta 360
273 tagttaagag aggtgagcca 380
276 <210> SEQ ID NO: 13
277 <211> LENGTH: 871
278 <212> TYPE: DNA
279 <213> ORGANISM: Homo sapiens
281 <400> SEQUENCE: 13
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283 ctcattgcag cctcggtctc ccaggctcaa gcaatccttc cacctcagcc tccagactag 120
284 ctggaactac aggcgcatac caccaagcct ggctaatttt ttaattaaga cagggtctac 180
285 tatgtggccc aggtggtctt tgaactcctg gactcaagca attctccac tctggcctcc 240
286 caaagtgata ggattacagg catgagccac caagcccagc ctggctcacc tctcttaact 300
287 ataaccatac caaatgaaga atgaatagga aggcgctatc tccacttttt gttcatttgt 360
288 ttcttttctc atatcctctg cagatgacga agggagcaca caaatgtaga caagtcacac 420
289 taaaacatca atgagggtta gaacctccca ctcagaccag ggatagataa ctttcacagt 480
290 acttctacag ttggagaggg agtactactc tgatctggag gctggacaaa acttctgtgc 540
291 acaagcaaaa aaagcctatt accattacct gtatccaaat tccagcagca acgatggcga 600
292 agagcctcat agcagatgtg gcagtggccg ccacttccca tgacaaaggg aggtaggcat 660
293 gattcatctc tagtgcattg ggacggttgc cttttgcccc aaatcaactc aagaccctt 720
294 tccaccatat gtctgtatgt aactctaaat gcatctctaa gacttaagaa taaaaagcca 780
295 ctgctacctg gcaagtggat gaggcaaaag agaagacata ccccaaagaa ctatagcact 840
296 ctgctccaaa ttacagaact ttctaaacgt c 871
299 <210> SEQ ID NO: 14

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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

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Input Set : A:\Dex-249.app

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L:14 M:270 C: Current Application Number differs, Replaced Application Number
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:55 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:90 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
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L:245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:720 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:769 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:770 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53
L:1100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:1172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:1176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:1646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:1795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84
L:1849 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86
L:1850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86

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L:1853 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86
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L:1950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92
L:1951 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92
L:4139 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:171
L:4236 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:177
L:4304 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:181
L:4307 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:181
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L:5133 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:214
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L:6159 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:256
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L:7247 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:280